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Attorney Docket No. 59573 (46865)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Heegaard, et al.

CONF. NO.: 5193

APPLN SERIAL NO.: 10/623,150

ART UNIT: 1632

FILED: July 18, 2003

EXAMINER: Not yet assigned

FOR: METHOD FOR SCREENING COMPOUNDS FOR ACTIVITY IN TREATING AN  
OSTEOCLAST RELATED BONE DISEASE

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CERTIFICATE OF MAILING

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By: Helen Murray Tarbi  
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Pursuant to 37 C.F.R. §§1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

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II. COPIES

a. ☒ Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

a. ☒ Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in a PCT Search Report.

b. ☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:

c. ☐ The following additional information is provided for the Examiner's consideration:

FEES

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a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.

b. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.

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V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):  
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a. \_\_\_\_\_ before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

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or

c. \_\_\_\_\_ See the certification below. No fee is required.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e)  
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The undersigned hereby certified that

a. ☒ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, or

b. \_\_\_\_\_ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

c. \_\_\_\_\_ some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

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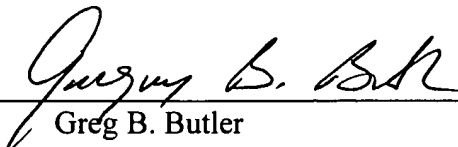
- a. ☐ after the mailing date of a Final Rejection or Notice of Allowance but before the payment of the Issue Fee, and the requisite Certification, petition, and petition fee are included herein.
- b. ☐ after the mailing date of a Final Office Action under 37 C.F.R. §1.113
- c. ☐ see certificate above
- d. ☒ a fee in the amount of \$180.00 is required by 37 CFR §1.17(p)
- e. ☐ applicant hereby petitions that this Information Disclosure Statement is considered in accordance with 37 C.F.R. §1.97(d).

☒ Enclosed is a check in the amount of \$180.00 for the above-indicated fee. Should any further fee be associated with the submission of this Information Disclosure Statement, the Commissioner is authorized to charge our Deposit Account No. 04-1105.

☐ No fee is required.

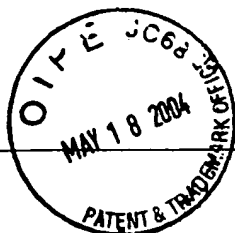
If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,

  
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<b>FORM PTO-1449</b>		<b>DOCKET NO:</b> 59573 (46865)	<b>SERIAL NO.:</b> 10/623,150
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		<b>FILING DATE:</b> July 18, 2003	<b>GROUP NO.:</b> 1632
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>			
1	C1	Hartinger, et al., "An Anion Binding Site That Regulates the Glutamate Transporter of Synaptic Vesicles," Journal of Biological Chemistry, Vol. 268, No. 31, pp. 23122-23127, 1993.	
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<b>STATEMENT</b>			<b>FILING DATE:</b> July 18, 2003	<b>GROUP NO.:</b> 1632
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47	C47	Mellman, "The Importance of Being Acid: The Role of Acidification in Intracellular Membrane Traffic," <i>Journal Experimental Biology</i> , Vol. 172, pp. 39-45, 1992.	
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56	C56	Pusch, et al., "Mutations in Dominant Human Myotonia Congenita Drastically Alter the Voltage Dependence of the CIC-1 Chloride Channel," <i>Neuron</i> , Vol. 15, pp. 1455-1463, 1995.	
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58	C58	Meyer-Kleine, et al., "Spectrum of Mutations in the Major Human Skeletal Muscle Chloride Channel Gene (CLCN1) Leading to Myotonia," <i>American Journal of Human Genetics</i> , Vol. 57, pp. 1325-1334, 1995.	
59	C59	Baron, et al., "Cell-Mediated Extracellular Acidification and Bone Resorption: Evidence for a Low pH in Resorbing Lacunae and Localization of a 100-kD Lysosomal Membrane Protein at the Osteoclast Ruffled Border," <i>Journal of Cell Biology</i> , Vol. 101, pp. 2210-2222, 1985.	
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63	C63	Kneen, et al., "Green Fluorescent Protein as a Noninvasive Intracellular pH Indicator," <i>Biophysical Journal</i> , Vol. 74, pp. 1591-1599, 1998.	
64	C64	Zen, et al., "Second Messengers Regulate Endosomal Acidification in Swiss 3T3 Fibroblasts," <i>Journal of Cell Biology</i> , Vol. 119, pp. 99-110, 1992.	
65	C65	Lewalle, et al., "Inhibition of P210 Expression in Chronic Myeloid Leukaemia: Oligonucleotides and/or Transduced Antisense Sequences," <i>Leukemia and Lymphoma</i> , Vol. 11, pp. 139-143, 1993.	
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67	C67	Borsani, et al., "Characterization of Human and Murine Gene (CLCN3) Sharing Similarities to Voltage-Gated Chloride Channels and to a Yeast Integral Membrane Protein," <i>Genomics</i> , Vol. 27, pp. 131-141, 1995.	
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69	C69	Presley, et al., "The <i>End2</i> Mutation in CHO Cells Slows the Exit of Transferrin Receptors from the Recycling Compartment but Bulk Membrane Recycling Is Unaffected," <i>Journal of Cell Biology</i> , Vol. 122, pp. 1231-1241, 1993.	
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71	C71	Ratcliff, et al., "Disruption of the Cystic Fibrosis Transmembrane Conductance Regulator Gene in Embryonic Stem Cells by Gene Targeting," Transgenic Research, Vol. 1, pp. 177-181, 1992.	
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85	C85	Friedrich, et al., "Mutational Analysis Demonstrates That CIC-4 and CIC-5 Directly Mediate Plasma Membrane Currents," Journal of Biological Chemistry, Vol. 27, pp. 896-902, 1999.	
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<b>FORM PTO-1449</b>		<b>DOCKET NO:</b> 59573 (46865)	<b>SERIAL NO.:</b> 10/623,150
<b>INFORMATION DISCLOSURE STATEMENT</b>		<b>APPLICANT(S):</b> Heegaard, et al.	
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<b>EXAMINER:</b>			<b>DATE:</b>